

## WIRING OPTIMIZATIONS FOR POWER

### Abstract of the Disclosure

5 An electrical wiring structure and method of designing thereof. The method identifies at least one wire pair having a first wire and a second wire. The second wire is already tri-stated or  
can be tri-stated. The wire pair may have a same-direction switching probability per clock cycle  
that is no less than a predetermined or user-selected minimum same-direction switching  
probability. Alternatively, the wire pair may have an opposite-direction switching probability  
per clock cycle that is no less than a predetermined or user-selected minimum opposite-direction  
switching probability. The first wire and the second wire satisfy at least one mathematical  
10 relationship involving: a spacing between the first wire and the second wire; and a common run  
length of the first wire and the second wire.